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Abstract of the Disclosure

The present invention is directed to a process for cleaning large bone grafts using a pressure mediated flow of solutions, and to the bone grafts produced thereby where the bone grafts are suitable for transplantation into a human. The present method includes inducing a positive and/or negative pressure-mediated flow of solvent through an opening in the bone shaft of the large bone graft thereby removing bone marrow elements, as well as any bacteria particles and/or virus particles present. The bone grafts produced are suitable for transplantation into a human and are essentially free from viral and bacterial contamination, for example, free from HIV infectious particles.